
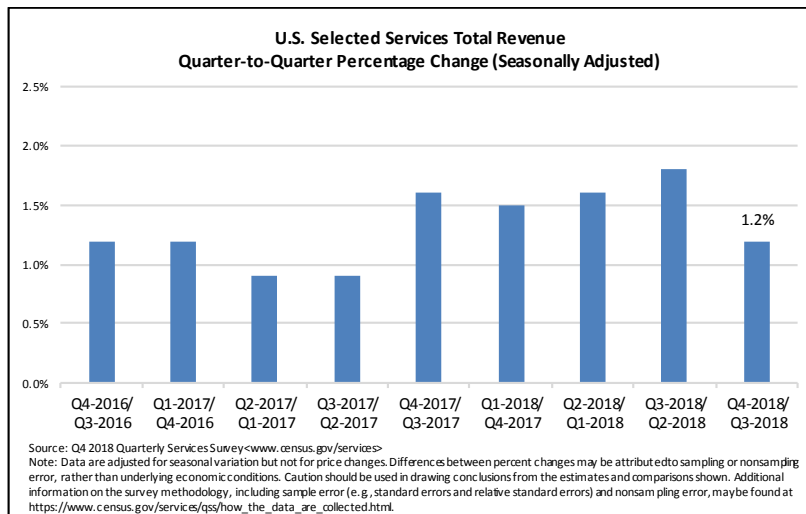


## QUARTERLY SELECTED SERVICES ESTIMATES, FOURTH QUARTER 2018

Release Number: CB19-35

**March 21, 2019** — The U.S. Census Bureau announced the following selected services estimates for the fourth calendar quarter of 2018:

 <b>SELECTED SERVICES TOTAL REVENUE</b>		
<b>4Q 2018</b>	<b>\$3,962.9 billion</b>	<b>+1.2 %</b>
<b>3Q 2018</b>	<b>\$3,914.6 billion</b>	<b>+1.8 %</b>
<b>Next release: May 17, 2019</b>		
Data are adjusted for seasonal variation but not for price changes. Source: U.S. Census Bureau, Quarterly Services Survey, March 21, 2019		



### Selected Services Total

U.S. selected services total revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$3,962.9 billion, an increase of 1.2 percent ( $\pm 0.2$  percent) from the third quarter of 2018 and up 6.3 percent ( $\pm 0.4$  percent) from the fourth quarter of 2017.

### Utilities

U.S. utilities revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$151.4 billion, an increase of 1.1 percent ( $\pm 2.3$  percent)\* from the third quarter of 2018 and up 3.9 percent ( $\pm 1.7$  percent) from the fourth quarter of 2017.

### Transportation and warehousing

U.S. transportation and warehousing revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$252.8 billion, an increase of 2.4 percent ( $\pm 0.8$  percent) from the third quarter of 2018 and up 8.3 percent ( $\pm 1.5$  percent) from the fourth quarter of 2017.

### Information

U.S. information sector revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$421.6 billion, an increase of 1.2 percent ( $\pm 0.4$  percent) from the third quarter of 2018 and up 7.9 percent ( $\pm 0.9$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third

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quarter of 2018 percentage change was revised from 1.9 percent ( $\pm 0.4$  percent) to 1.9 percent ( $\pm 0.6$  percent).

### **Professional, scientific, and technical services**

U.S. professional, scientific, and technical services revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$495.7 billion, an increase of 0.8 percent ( $\pm 0.6$  percent) from the third quarter of 2018 and up 5.6 percent ( $\pm 1.3$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 1.2 percent ( $\pm 1.5$  percent)\* to 1.1 percent ( $\pm 1.5$  percent)\*.

### **Administrative and support and waste management and remediation services**

U.S. administrative and support and waste management and remediation services revenue for the fourth quarter of 2018, adjusted for seasonal variation but not for price changes, was \$258.9 billion, an increase of 2.3 percent ( $\pm 1.1$  percent) from the third quarter of 2018 and up 9.1 percent ( $\pm 2.8$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 2.5 percent ( $\pm 1.3$  percent) to 2.9 percent ( $\pm 1.3$  percent).

### **Finance and insurance**

U.S. finance and insurance revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$1,244.3 billion, an increase of 2.1 percent ( $\pm 0.9$  percent) from the third quarter of 2018 and up 8.0 percent ( $\pm 1.3$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was not revised from 1.9 percent ( $\pm 0.8$  percent).

### **Real estate and rental and leasing**

U.S. real estate and rental and leasing revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$184.4 billion, an increase of 1.1 percent ( $\pm 1.1$  percent)\* from the third quarter of 2018 and up 7.3 percent ( $\pm 2.5$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 3.2 percent ( $\pm 1.9$  percent) to 4.2 percent ( $\pm 1.9$  percent).

### **Educational services**

U.S. educational services revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$18.1 billion, an increase of 0.9 percent ( $\pm 3.4$  percent)\* from the third quarter of 2018 and up 7.1 percent ( $\pm 6.8$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from -2.5 percent ( $\pm 4.2$  percent)\* to -2.1 percent ( $\pm 3.8$  percent)\*.

### **Health care and social assistance**

U.S. health care and social assistance revenue for the fourth quarter of 2018, not adjusted for seasonal

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variation, or price changes, was \$678.1 billion, an increase of 2.5 percent ( $\pm 0.8$  percent) from the third quarter of 2018 and up 3.8 percent ( $\pm 1.1$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was not revised from 0.0 percent ( $\pm 0.4$  percent)\*.

### **Arts, entertainment, and recreation**

U.S. arts, entertainment, and recreation revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$71.9 billion, a decrease of 3.8 percent ( $\pm 2.8$  percent) from the third quarter of 2018 and up 6.2 percent ( $\pm 3.2$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 7.5 percent ( $\pm 4.0$  percent) to 7.7 percent ( $\pm 3.8$  percent).

### **Accommodation**

U.S. accommodation revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$59.7 billion, a decrease of 7.0 percent ( $\pm 1.1$  percent) from the third quarter of 2018 and up 2.5 percent ( $\pm 1.9$  percent) from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 0.1 percent ( $\pm 0.9$  percent)\* to -0.5 percent ( $\pm 1.7$  percent)\*.

### **Other services (except public administration)**

U.S. other services (except public administration) revenue for the fourth quarter of 2018, not adjusted for seasonal variation, or price changes, was \$147.2 billion, an increase of 5.8 percent ( $\pm 2.5$  percent) from the third quarter of 2018 and down 3.1 percent ( $\pm 3.2$  percent)\* from the fourth quarter of 2017. The second quarter of 2018 to third quarter of 2018 percentage change was revised from 5.8 percent ( $\pm 2.8$  percent) to 4.4 percent ( $\pm 2.5$  percent).

## **GENERAL INFORMATION**

### **Expanded Seasonal Adjustment**

Effective with the March 2019 release for the fourth quarter of 2018, new seasonally adjusted estimates of revenue for the Selected Services Total and for selected industries within NAICS sectors 22, 48-49, 51, and 54 were introduced. For more information, please visit our seasonal adjustment FAQs:

[<https://www.census.gov/services/qss/seasonally\\_adjusted\\_faqs.html>](https://www.census.gov/services/qss/seasonally_adjusted_faqs.html).

### **Benchmarking**

Effective with the March 2019 release for the fourth quarter of 2018, quarterly services estimates were revised to reflect historical corrections, new seasonal factors, and results of the 2017 Service Annual Survey.

### **Release Schedule**

The first quarter 2019 Advance Quarterly Services Report is scheduled for release on May 17, 2019. View the

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full schedule in the Economic Briefing Room: <[www.census.gov/economic-indicators/](http://www.census.gov/economic-indicators/)>. Additional industry detail and estimates of revenue, expenses, inpatient days, and discharges can be found at <[www.census.gov/services/](http://www.census.gov/services/)>.

## RESOURCES

### API

The Census Bureau's application programming interface lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before. <[www.census.gov/developers/](http://www.census.gov/developers/)>

### FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <<https://fred.stlouisfed.org/fred-mobile/>> for both Apple and Android devices. FRED, the signature database of the Federal Reserve Bank of St. Louis, now incorporates the Census Bureau's 13 economic indicators.

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\*The 90 percent confidence interval includes zero. There is insufficient evidence to conclude that the actual change is different from zero.

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**Table 1a. Selected Services - Estimated Quarterly Revenue for Employer Firms, Seasonally Adjusted<sup>1</sup>**

[Estimates are adjusted for seasonal variation but not for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2012 NAICS code <sup>2</sup>	Kind of business	Total revenue (millions of dollars)						Percent change					
		4Q	3Q	2Q	1Q	4Q	3Q	4Q 2018	3Q 2018	2Q 2018	1Q 2018	4Q 2018	3Q 2018
		2018	2018	2018	2018	2017	2017	from	from	from	from	from	from
		(p)	(r)	(r)	(r)	(r)	(r)	3Q 2018	2Q 2018	1Q 2018	4Q 2017	4Q 2017	3Q 2017
		(p)	(r)	(r)	(r)	(r)	(r)	(p)	(r)	(r)	(r)	(p)	(r)
	<b>Selected Services Total<sup>3</sup></b> .....	<b>3,962,886</b>	<b>3,914,626</b>	<b>3,844,691</b>	<b>3,783,512</b>	<b>3,727,545</b>	<b>3,668,094</b>	<b>1.2</b>	<b>1.8</b>	<b>1.6</b>	<b>1.5</b>	<b>6.3</b>	<b>6.7</b>
<b>22</b>	<b>Utilities<sup>4,5</sup></b> .....	<b>151,353</b>	<b>149,768</b>	<b>148,998</b>	<b>146,669</b>	<b>145,666</b>	<b>144,741</b>	<b>1.1</b>	<b>0.5</b>	<b>1.6</b>	<b>0.7</b>	<b>3.9</b>	<b>3.5</b>
2211	Electric power generation, transmission and distribution.....	118,941	119,496	119,094	116,705	116,126	116,661	-0.5	0.3	2.0	0.5	2.4	2.4
2212	Natural gas distribution.....	28,795	26,446	26,200	26,284	25,965	24,456	8.9	0.9	-0.3	1.2	10.9	8.1
2213	Water, sewage and other systems.....	3,617	3,826	3,704	3,680	3,575	3,624	-5.5	3.3	0.7	2.9	1.2	5.6
<b>48-49</b>	<b>Transportation and warehousing<sup>6</sup></b> .....	<b>252,785</b>	<b>246,795</b>	<b>244,121</b>	<b>239,241</b>	<b>233,328</b>	<b>229,388</b>	<b>2.4</b>	<b>1.1</b>	<b>2.0</b>	<b>2.5</b>	<b>8.3</b>	<b>7.6</b>
481	Air Transportation.....	57,403	55,999	55,367	54,588	53,613	52,593	2.5	1.1	1.4	1.8	7.1	6.5
484	Truck Transportation <sup>5</sup> .....	75,403	74,489	73,905	71,878	69,213	68,093	1.2	0.8	2.8	3.9	8.9	9.4
4841	General freight trucking.....	51,068	50,311	49,558	48,125	45,724	45,029	1.5	1.5	3.0	5.3	11.7	11.7
4842	Specialized freight trucking.....	24,335	24,178	S	23,753	23,489	23,064	0.6	S	S	1.1	3.6	4.8
485	Transit and ground passenger transportation.....	9,804	9,863	9,600	9,501	9,552	9,617	-0.6	2.7	1.0	-0.5	2.6	2.6
487	Scenic and sightseeing transportation.....	849	859	833	842	853	916	-1.2	3.1	-1.1	-1.3	-0.5	-6.2
492	Couriers and messengers.....	24,999	24,333	23,856	23,346	22,861	22,446	2.7	2.0	2.2	2.1	9.4	8.4
<b>51</b>	<b>Information</b> .....	<b>421,638</b>	<b>416,653</b>	<b>408,804</b>	<b>398,010</b>	<b>390,675</b>	<b>384,978</b>	<b>1.2</b>	<b>1.9</b>	<b>2.7</b>	<b>1.9</b>	<b>7.9</b>	<b>8.2</b>
511	Publishing industries (except Internet) <sup>5</sup> .....	88,699	88,727	87,260	85,424	80,094	80,935	Z	1.7	2.1	6.7	10.7	9.6
51111	Newspaper publishers.....	6,090	6,176	6,200	6,288	6,387	6,191	-1.4	-0.4	-1.4	-1.6	-4.7	-0.2
51112	Periodical publishers.....	6,749	6,692	6,705	7,015	7,033	7,110	0.9	-0.2	-4.4	-0.3	-4.0	-5.9
5111 pt	Book, directory and mailing list, and other publishers <sup>7</sup> .....	9,942	10,142	10,211	10,139	10,493	9,985	-2.0	-0.7	0.7	-3.4	-5.3	1.6
5112	Software publishers.....	65,918	65,717	64,144	61,982	56,181	57,649	0.3	2.5	3.5	10.3	17.3	14.0
512	Motion picture and sound recording industries.....	27,681	28,330	28,722	26,699	25,985	25,771	-2.3	-1.4	7.6	2.7	6.5	9.9
515	Broadcasting (except Internet) <sup>5</sup> .....	43,747	43,380	42,218	42,034	40,865	39,903	0.8	2.8	0.4	2.9	7.1	8.7
5151	Radio and television broadcasting.....	21,892	21,608	20,635	20,545	19,512	19,017	1.3	4.7	0.4	5.3	12.2	13.6
5152	Cable and other subscription programming.....	21,855	21,772	21,583	21,489	21,353	20,886	0.4	0.9	0.4	0.6	2.4	4.2
518	Data processing, hosting, and related services.....	47,745	46,672	45,649	43,126	41,712	39,694	2.3	2.2	5.9	3.4	14.5	17.6
<b>54</b>	<b>Professional, scientific, and technical services<sup>8</sup></b> .....	<b>495,689</b>	<b>491,518</b>	<b>486,307</b>	<b>476,608</b>	<b>469,577</b>	<b>458,694</b>	<b>0.8</b>	<b>1.1</b>	<b>2.0</b>	<b>1.5</b>	<b>5.6</b>	<b>7.2</b>
5411	Legal services <sup>8</sup> .....	82,860	82,972	82,683	78,889	79,450	75,831	-0.1	0.4	4.8	-0.7	4.3	9.4
5412	Accounting, tax preparation, bookkeeping, and payroll services.....	45,862	44,923	43,685	44,464	43,685	42,173	2.1	2.8	-1.8	1.8	5.0	6.5
5413	Architectural, engineering, and related	83,118	84,589	85,164	86,742	81,633	81,750	-1.7	-0.7	-1.8	6.3	1.8	3.5
54133	Engineering services.....	63,428	65,116	66,317	67,658	63,361	63,237	-2.6	-1.8	-2.0	6.8	0.1	3.0
5416	Management, scientific, and technical consulting services.....	68,949	68,482	67,305	67,048	66,864	65,904	0.7	1.7	0.4	0.3	3.1	3.9
5417	Scientific research and development services.....	44,910	43,877	43,650	41,764	40,705	39,290	2.4	0.5	4.5	2.6	10.3	11.7
5418	Advertising, public relations, and related services.....	26,702	26,440	26,617	25,509	26,368	25,826	1.0	-0.7	4.3	-3.3	1.3	2.4
<b>56</b>	<b>Administrative and support and waste management and remediation services<sup>5</sup></b> .....	<b>258,852</b>	<b>253,013</b>	<b>245,860</b>	<b>239,865</b>	<b>237,320</b>	<b>232,447</b>	<b>2.3</b>	<b>2.9</b>	<b>2.5</b>	<b>1.1</b>	<b>9.1</b>	<b>8.8</b>
5613	Employment services.....	107,892	106,149	101,397	96,567	95,554	93,071	1.6	4.7	5.0	1.1	12.9	14.1
5615	Travel arrangement and reservation services.....	11,886	12,589	12,482	12,100	12,019	12,126	-5.6	0.9	3.2	0.7	-1.1	3.8
561 pt	Other administrative and support services <sup>9</sup> .....	S	108,844	107,134	106,339	105,305	102,904	S	1.6	0.7	1.0	S	5.8
562	Waste management and remediation services.....	25,934	25,431	24,847	24,859	24,442	24,346	2.0	2.4	Z	1.7	6.1	4.5
<b>622</b>	<b>Hospitals.....</b>	<b>290,838</b>	<b>292,800</b>	<b>288,263</b>	<b>284,258</b>	<b>285,162</b>	<b>280,045</b>	<b>-0.7</b>	<b>1.6</b>	<b>1.4</b>	<b>-0.3</b>	<b>2.0</b>	<b>4.6</b>

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.

S Estimate does not meet publication standards because of high variability (coefficient of variation greater than 30%), poor response quality (total quantity response rate is less than 50%) or other concerns about the estimate's quality. Unpublished estimates derived from this table by subtraction are subject to these same limitations and should not be attributed to the U.S. Census Bureau. For a description of publication standards and the total quantity response rate, see [www.census.gov/quality/guidelines/index.html](http://www.census.gov/quality/guidelines/index.html).

(1) The seasonal factors are based on a short time series that may not have stable seasonal patterns. As more estimates are added to the time series, large revisions in seasonal factors and consequently historical estimates may be observed. Data users should exercise caution when drawing inferences based on the seasonally adjusted estimates. Unless otherwise specified, seasonally adjusted estimates are obtained using a direct seasonal adjustment at the published NAICS (North American Industry Classification System) level.

(2) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2012 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(3) Includes NAICS 22 (Utilities), NAICS 48-49 (Transportation and warehousing), NAICS 51 (Information), NAICS 52 (Finance and insurance), NAICS 53 (Real estate and rental and leasing), NAICS 54 (Selected professional, scientific, and technical services), NAICS 56 (Administrative and support and waste management and remediation services), NAICS 61 (Educational services), NAICS 62 (Health care and social assistance), NAICS 71 (Arts, entertainment, and recreation), NAICS 721 (Accommodation), and NAICS 81 (Other services (except public administration)). Excludes government owned utilities, NAICS 482 (Rail transportation), NAICS 491 (Postal Service), NAICS 525 (Funds, trusts, and other financial vehicles), NAICS 54112 (Offices of notaries), NAICS 6111 (Elementary and secondary schools), NAICS 6112 (Junior colleges), NAICS 6113 (Colleges, universities, and professional schools), NAICS 8131 (Religious organizations), NAICS 81393 (Labor unions and similar labor organizations) NAICS 81394 (Political organizations), and and NAICS 814 (Private households).

(4) Excludes government owned utilities.

(5) Seasonally adjusted estimates for these NAICS are obtained indirectly by summing the seasonally adjusted estimates for the detailed NAICS that comprise each respective level.

(6) Excludes NAICS 482 (Rail transportation) and 491 (Postal service).

(7) Includes NAICS 51113 (Book publishers), 51114 (Directory and mailing list publishers), and 51119 (Other publishers).

(8) Excludes NAICS 54112 (Offices of notaries).

(9) Includes NAICS 5611 (Office administrative services), 5612 (Facilities support services), 5614 (Business support services), 5616 (Investigation and security services), 5617 (Services to buildings and dwellings), and 5619 (Other support services).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

 [Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2012 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
	<b>Selected Services Total <sup>2</sup></b> .....	<b>4,010,441</b>	<b>3,922,455</b>	<b>3,848,536</b>	<b>3,726,759</b>	<b>3,772,276</b>	<b>3,675,430</b>	<b>2.2</b>	<b>1.9</b>	<b>6.3</b>	<b>6.7</b>	<b>15,508,191</b>	<b>14,635,616</b>	<b>6.0</b>
<b>22</b>	<b>Utilities <sup>3</sup></b> .....	<b>146,616</b>	<b>159,093</b>	<b>138,056</b>	<b>153,354</b>	<b>140,982</b>	<b>154,102</b>	<b>-7.8</b>	<b>15.2</b>	<b>4.0</b>	<b>3.2</b>	<b>597,119</b>	<b>579,413</b>	<b>3.1</b>
2211	Electric power generation, transmission and distribution .....	111,210	137,062	114,211	111,803	108,810	133,577	-18.9	20.0	2.2	2.6	474,286	464,934	2.0
2212	Natural gas distribution .....	31,876	17,719	20,200	38,191	28,665	16,459	79.9	-12.3	11.2	7.7	107,986	100,043	7.9
2213	Water, sewage and other systems .....	3,530	4,312	3,645	3,360	3,507	4,066	-18.1	18.3	0.7	6.1	14,847	14,436	2.8
<b>48-49</b>	<b>Transportation and warehousing <sup>4</sup></b> .....	<b>253,291</b>	<b>252,225</b>	<b>249,003</b>	<b>228,475</b>	<b>233,795</b>	<b>234,893</b>	<b>0.4</b>	<b>1.3</b>	<b>8.3</b>	<b>7.4</b>	<b>982,994</b>	<b>917,458</b>	<b>7.1</b>
481	Air transportation .....	56,140	58,407	58,080	50,712	52,326	55,117	-3.9	0.6	7.3	6.0	223,339	209,752	6.5
483	Water transportation .....	11,276	13,006	11,010	9,829	10,457	12,153	-13.3	18.1	7.8	7.0	45,121	42,187	7.0
4831	Deep sea, coastal, and Great Lakes water transportation.....	9,148	10,889	8,981	8,108	8,506	10,258	-16.0	21.2	7.5	6.2	37,126	34,631	7.2
4832	Inland water transportation.....	2,128	2,117	2,029	1,721	1,951	1,895	0.5	4.3	9.1	11.7	7,995	7,556	5.8
484	Truck transportation .....	74,967	77,050	75,623	68,052	68,881	70,603	-2.7	1.9	8.8	9.1	295,692	271,389	9.0
4841	General freight trucking .....	51,119	51,518	50,351	46,104	45,815	46,155	-0.8	2.3	11.6	11.6	199,092	177,900	11.9
48412	General freight trucking, long-distance .....	43,453	43,623	42,234	38,954	38,544	38,944	-0.4	3.3	12.7	12.0	168,264	150,150	12.1
4842	Specialized freight trucking .....	23,848	25,532	S	21,948	23,066	24,448	-6.6	S	3.4	4.4	S	93,489	S
485	Transit and ground passenger transportation .....	10,177	8,975	10,118	9,501	9,915	8,694	13.4	-11.3	2.6	3.2	38,771	38,062	1.9
486	Pipeline transportation .....	13,745	12,594	11,956	12,612	12,581	11,338	9.1	5.3	9.3	11.1	50,907	46,666	9.1
487	Scenic and sightseeing transportation .....	653	1,335	918	485	660	1,407	-51.1	45.4	-1.1	-5.1	3,391	3,523	-3.7
488	Support activities for transportation .....	49,870	48,162	48,809	45,684	45,829	45,245	3.5	-1.3	8.8	6.4	192,525	182,448	5.5
492	Couriers and messengers .....	26,499	23,481	23,546	23,066	24,187	21,705	12.9	-0.3	9.6	8.2	96,592	88,780	8.8
493	Warehousing and storage .....	9,964	9,215	8,943	8,534	8,959	8,631	8.1	3.0	11.2	6.8	36,656	34,651	5.8
<b>51</b>	<b>Information</b> .....	<b>440,190</b>	<b>409,987</b>	<b>405,125</b>	<b>390,846</b>	<b>407,865</b>	<b>378,433</b>	<b>7.4</b>	<b>1.2</b>	<b>7.9</b>	<b>8.3</b>	<b>1,646,148</b>	<b>1,533,690</b>	<b>7.3</b>
511	Publishing industries (except Internet) .....	95,470	86,034	86,869	81,887	86,073	78,526	11.0	-1.0	10.9	9.6	350,260	317,850	10.2
51111	Newspaper publishers .....	6,602	6,022	6,157	5,961	6,923	6,042	9.6	-2.2	-4.6	-0.3	24,742	25,204	-1.8
51112	Periodical publishers .....	7,120	6,692	6,765	6,559	7,413	7,117	6.4	-1.1	-4.0	-6.0	27,136	28,258	-4.0
5111 pt	Book, directory and mailing list, and other publishers <sup>5</sup> .....	10,161	11,217	10,252	8,811	10,724	11,004	-9.4	9.4	-5.2	1.9	40,441	40,026	1.0
5112	Software publishers .....	71,587	62,103	63,695	60,556	61,013	54,363	15.3	-2.5	17.3	14.2	257,941	224,362	15.0
512	Motion picture and sound recording industries .....	29,065	27,225	28,320	26,752	27,362	24,766	6.8	-3.9	6.2	9.9	111,362	103,886	7.2
515	Broadcasting (except Internet) .....	46,723	41,755	41,582	41,391	43,569	38,449	11.9	0.4	7.2	8.6	171,451	160,879	6.6
5151	Radio and television broadcasting .....	24,300	20,506	19,913	20,031	21,639	18,085	18.5	3.0	12.3	13.4	84,750	77,552	9.3
5152	Cable and other subscription programming .....	22,423	21,249	21,669	21,360	21,930	20,364	5.5	-1.9	2.2	4.3	86,701	83,327	4.0
517	Telecommunications .....	161,031	157,664	154,001	152,542	157,772	153,272	2.1	2.4	2.1	2.9	625,238	617,160	1.3
5171	Wired telecommunications carriers .....	79,005	78,127	77,446	77,139	78,559	78,267	1.1	0.9	0.6	-0.2	311,717	315,343	-1.1
5172	Wireless telecommunications carriers (except satellite) .....	69,551	67,127	64,740	63,812	67,848	63,791	3.6	3.7	2.5	5.2	265,230	257,845	2.9
517 pt	Other telecommunications <sup>6</sup> .....	12,475	12,410	11,815	11,591	11,365	11,214	0.5	5.0	9.8	10.7	48,291	43,972	9.8
518	Data processing, hosting, and related services .....	49,034	46,392	45,466	42,393	42,880	39,416	5.7	2.0	14.4	17.7	183,285	155,934	17.5
519	Other information services.....	58,867	50,917	48,887	45,881	50,209	44,004	15.6	4.2	17.2	15.7	204,552	177,981	14.9
<b>52</b>	<b>Finance and insurance <sup>7</sup></b> .....	<b>1,244,321</b>	<b>1,218,868</b>	<b>1,196,631</b>	<b>1,178,832</b>	<b>1,151,697</b>	<b>1,125,864</b>	<b>2.1</b>	<b>1.9</b>	<b>8.0</b>	<b>8.3</b>	<b>4,838,652</b>	<b>4,498,128</b>	<b>7.6</b>
52 pt	Finance and insurance (except monetary authorities-central bank) <sup>8</sup> .....	1,216,578	1,191,029	1,168,446	1,149,480	1,122,532	1,097,440	2.1	1.9	8.4	8.5	4,725,533	4,381,363	7.9
521	Monetary authorities-central bank.....	27,743	27,839	28,185	29,352	29,165	28,424	-0.3	-1.2	-4.9	-2.1	113,119	116,765	-3.1
522	Credit intermediation and related activities.....	351,575	343,718	336,240	323,331	318,791	313,973	2.3	2.2	10.3	9.5	1,354,864	1,234,772	9.7
5221	Depository credit intermediation.....	159,980	158,360	154,131	147,088	144,734	141,629	1.0	2.7	10.5	11.8	619,559	557,132	11.2
5222	Nondepository credit intermediation.....	164,721	158,585	155,998	151,472	147,909	147,323	3.9	1.7	11.4	7.6	630,776	577,328	9.3
5223	Activities related to credit intermediation.....	26,874	26,773	26,111	24,771	26,148	25,021	0.4	2.5	2.8	7.0	104,529	100,312	4.2
523	Securities, commodity contracts, and other financial investments and related activities .....	171,665	169,922	169,499	172,450	162,803	156,606	1.0	0.2	5.4	8.5	683,536	634,612	7.7
5231	Securities and commodity contracts intermediation and brokerage .....	74,213	76,102	76,641	79,320	68,192	67,877	-2.5	-0.7	8.8	12.1	306,276	275,228	11.3
5232	Securities and commodity exchanges .....	3,436	2,700	2,946	3,177	2,674	2,658	27.3	-8.4	28.5	1.6	12,259	11,085	10.6
5239	Other financial investment activities .....	94,016	91,120	89,912	89,953	91,937	86,071	3.2	1.3	2.3	5.9	365,001	348,299	4.8
524	Insurance carriers and related activities .....	693,338	677,389	662,707	653,699	640,938	626,861	2.4	2.2	8.2	8.1	2,687,133	2,511,979	7.0
5241	Insurance carriers .....	595,900	581,417	567,535	559,360	546,845	536,525	2.5	2.4	9.0	8.4	2,304,212	2,150,726	7.1
5242	Agencies, brokerages, and other insurance related activities .....	97,438	95,972	95,172	94,339	94,093	90,336	1.5	0.8	3.6	6.2	382,921	361,253	6.0
<b>53</b>	<b>Real estate and rental and leasing</b> .....	<b>184,446</b>	<b>182,400</b>	<b>174,981</b>	<b>160,777</b>	<b>171,861</b>	<b>169,059</b>	<b>1.1</b>	<b>4.2</b>	<b>7.3</b>	<b>7.9</b>	<b>702,604</b>	<b>663,749</b>	<b>5.9</b>
531	Real estate .....	127,070	125,661	120,522	110,015	117,747	116,723	1.1	4.3	7.9	7.7	483,268	459,322	5.2
5311	Lessors of real estate.....	71,717	70,652	66,778	65,137	66,899	64,992	1.5	5.8	7.2	8.7	274,284	259,856	5.6
5312	Offices of real estate agents and brokers.....	28,814	28,866	29,208	22,169	27,414	28,543	-0.2	-1.2	5.1	1.1	109,057	108,233	0.8
5313	Activities related to real estate.....	S	S	24,536	22,709	23,434	23,188	S	S	S	S	S	91,233	S
532	Rental and leasing services .....	44,817	45,266	42,297	39,921	41,569	41,259	-1.0	7.0	7.8	9.7	172,301	159,931	7.7
5321	Automotive equipment rental and leasing .....	16,669	17,527	15,808	14,645	15,301	16,164	-4.9	10.9	8.9	8.4	64,649	60,073	7.6
53211	Passenger car rental and leasing.....	11,114	11,928	10,594	9,927	10,273	11,080	-6.8	12.6	8.2	7.7	43,563	40,717	7.0
53212	Truck, utility trailer, and RV (recreational vehicle) rental and leasing .....	5,555	5,599	5,214	4,718	5,028	5,084	-0.8	7.4	10.5	10.1	21,086	19,356	8.9
5322	Consumer goods rental .....	5,646	5,753	5,748	5,398	5,442	5,583	-1.9	0.1	3.7	3.0	22,545	22,460	0.4
5323	General rental centers.....	S	S	S	S	S	S	S	S	S	S	S	S	S
5324	Commercial and industrial machinery and equipment rental and leasing .....	21,700	21,133	19,908	19,276	20,074	18,738	2.7	6.2	8.1	12.8	82,017	74,591	10.0
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	12,559	11,473	12,162	10,841	12,545	11,077	9.5	-5.7	0.1	3.6	47,035	44,496	5.7



Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted

[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2012 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
54	Professional, scientific, and technical services <sup>9</sup> .....	504,611	487,094	490,684	467,552	478,029	455,024	3.6	-0.7	5.6	7.0	1,949,941	1,832,281	6.4
5411	Legal services <sup>9</sup> .....	92,969	82,557	81,939	70,369	88,984	75,679	12.6	0.8	4.5	9.1	327,834	306,214	7.1
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	39,762	39,757	46,350	52,734	37,831	37,450	Z	-14.2	5.1	6.2	178,603	172,879	3.3
5413	Architectural, engineering, and related services .....	83,118	86,365	85,419	84,573	81,796	83,385	-3.8	1.1	1.6	3.6	339,475	321,804	5.5
5413 pt	Architectural and related services <sup>10</sup> .....	19,309	20,077	19,036	18,674	17,991	19,010	-3.8	5.5	7.3	5.6	77,096	74,132	4.0
54133	Engineering services .....	63,809	66,288	66,383	65,899	63,805	64,375	-3.7	-0.1	Z	3.0	262,379	247,672	5.9
5414	Specialized design services .....	5,911	5,922	S	5,184	5,696	S	-0.2	S	3.8	S	S	S	S
5415	Computer systems design and related services .....	114,827	110,624	107,836	102,324	103,518	99,661	3.8	2.6	10.9	11.0	435,611	399,117	9.1
5416	Management, scientific, and technical consulting services .....	70,466	68,824	67,305	65,305	68,201	66,102	2.4	2.3	3.3	4.1	271,900	261,002	4.2
5417	Scientific research and development services .....	46,617	43,658	43,999	40,010	42,293	39,133	6.8	-0.8	10.2	11.6	174,284	154,901	12.5
5418	Advertising, public relations, and related services .....	27,824	26,149	26,670	24,667	27,423	25,619	6.4	-2.0	1.5	2.1	105,310	104,843	0.4
5419	Other professional, scientific, and technical services .....	S	S	24,971	22,386	22,287	22,142	S	S	S	S	S	87,731	S
56	Administrative and support and waste management and remediation services .....	261,946	255,436	246,950	233,724	239,738	234,868	2.5	3.4	9.3	8.8	998,056	929,684	7.4
561	Administrative and support services .....	235,908	229,242	221,705	210,083	215,247	209,792	2.9	3.4	9.6	9.3	896,938	832,981	7.7
5613	Employment services .....	112,316	105,300	98,558	96,181	99,472	92,140	6.7	6.8	12.9	14.3	412,355	373,941	10.3
5615	Travel arrangement and reservation services .....	11,244	13,357	12,906	11,604	11,418	12,793	-15.8	3.5	-1.5	4.4	49,111	47,722	2.9
561 pt	Other administrative and support services <sup>11</sup> .....	S	110,585	110,241	102,298	104,357	104,859	S	0.3	S	5.5	S	411,318	S
562	Waste management and remediation services .....	26,038	26,194	25,245	23,641	24,491	25,076	-0.6	3.8	6.3	4.5	101,118	96,703	4.6
61	Educational services <sup>12</sup> .....	18,107	17,950	18,330	16,992	16,914	16,992	0.9	-2.1	7.1	5.6	71,379	67,753	5.4
6114	Business schools and computer and management training .....	3,089	3,452	3,208	2,986	3,084	3,314	-10.5	7.6	0.2	4.2	12,735	12,437	2.4
6115	Technical and trade schools .....	3,999	3,869	3,722	3,765	3,840	3,766	3.4	3.9	4.1	2.7	15,355	14,805	3.7
6116	Other schools and instruction .....	S	6,800	7,025	6,862	6,420	6,321	S	-3.2	S	7.6	S	S	S
6117	Educational support services .....	3,917	3,829	4,375	3,379	3,570	3,591	2.3	-12.5	9.7	6.6	15,500	14,819	4.6
62	Health care and social assistance .....	678,121	661,383	661,614	647,088	653,530	631,048	2.5	Z	3.8	4.8	2,648,206	2,541,261	4.2
621	Ambulatory health care services .....	268,236	261,566	260,545	255,269	256,257	249,813	2.6	0.4	4.7	4.7	1,045,616	1,000,235	4.5
6211	Offices of physicians .....	133,627	129,087	127,836	125,076	126,951	123,063	3.5	1.0	5.3	4.9	515,626	490,862	5.0
6212	Offices of dentists .....	S	S	32,078	32,718	30,588	30,685	S	S	S	S	S	S	S
6213	Offices of other health practitioners .....	S	S	21,474	20,638	21,038	20,757	S	S	S	S	S	S	S
6214	Outpatient care centers .....	36,754	34,824	35,568	34,581	34,997	33,331	5.5	-2.1	5.0	4.5	141,727	134,933	5.0
6215	Medical and diagnostic laboratories .....	12,737	12,717	12,963	12,647	13,036	12,814	0.2	-1.9	-2.3	-0.8	51,064	51,178	-0.2
6216	Home health care services .....	22,105	21,621	21,271	20,541	20,563	19,969	2.2	1.6	7.5	8.3	85,538	80,021	6.9
6219	Other ambulatory health care services .....	9,277	9,506	9,355	9,068	9,084	9,194	-2.4	1.6	2.1	3.4	37,206	35,559	4.6
622	Hospitals .....	291,420	289,286	290,281	285,395	285,732	276,404	0.7	-0.3	2.0	4.7	1,156,382	1,114,639	3.7
6221	General medical and surgical hospitals .....	271,425	269,426	270,312	265,734	266,529	257,540	0.7	-0.3	1.8	4.6	1,076,897	1,039,383	3.6
6222	Psychiatric and substance abuse hospitals .....	6,835	6,714	6,786	6,874	6,660	6,338	1.8	-1.1	2.6	5.9	27,209	25,829	5.3
6223	Specialty (except psychiatric and substance abuse) hospitals .....	13,160	13,146	13,183	12,787	12,543	12,526	0.1	-0.3	4.9	4.9	52,276	49,427	5.8
623	Nursing and residential care facilities .....	64,890	63,375	62,454	60,435	62,228	60,217	2.4	1.5	4.3	5.2	251,154	239,323	4.9
624	Social assistance .....	53,575	47,156	48,334	45,989	49,313	44,614	13.6	-2.4	8.6	5.7	195,054	187,064	4.3
6241	Individual and family services .....	28,195	25,443	25,357	23,902	24,944	22,860	10.8	0.3	13.0	11.3	102,897	96,009	7.2
6242	Community food and housing, and emergency and other relief services .....	10,303	7,787	8,433	7,653	9,813	8,430	32.3	-7.7	5.0	-7.6	34,176	35,488	-3.7
6243	Vocational rehabilitation services .....	3,727	3,722	3,620	3,440	3,558	3,577	0.1	2.8	4.7	4.1	14,509	14,012	3.5
6244	Child day care services .....	S	10,204	10,924	10,994	10,998	9,747	S	-6.6	S	4.7	S	41,555	S
71	Arts, entertainment, and recreation .....	71,914	74,735	69,412	60,622	67,699	71,955	-3.8	7.7	6.2	3.9	276,683	265,506	4.2
711	Performing arts, spectator sports, and related industries .....	35,217	34,363	31,023	24,480	32,475	32,679	2.5	10.8	8.4	5.2	125,083	118,366	5.7
7111	Performing arts companies .....	4,852	5,022	4,685	3,969	4,292	4,419	-3.4	7.2	13.0	13.6	18,528	16,955	9.3
7112	Spectator sports .....	13,573	12,150	11,489	8,215	12,987	12,610	11.7	5.8	4.5	-3.6	45,427	45,466	-0.1
7113	Promoters of performing arts, sports, and similar events .....	8,017	8,621	7,439	5,869	7,642	8,160	-7.0	15.9	4.9	5.6	29,946	28,331	5.7
7114	Agents and managers for artists, athletes, entertainers, and other public figures .....	2,881	2,378	2,315	2,060	2,283	2,158	21.2	2.7	26.2	10.2	9,634	8,193	17.6
7115	Independent artists, writers, and performers .....	S	S	5,095	4,367	5,271	5,332	S	S	S	S	S	19,421	S
712	Museums, historical sites, and similar institutions .....	3,950	4,536	4,229	3,556	4,704	4,351	-12.9	7.3	-16.0	4.3	16,271	17,175	-5.3
713	Amusement, gambling, and recreation industries .....	32,747	35,836	34,160	32,586	30,520	34,925	-8.6	4.9	7.3	2.6	135,329	129,965	4.1
7131	Amusement parks and arcades .....	4,899	6,860	5,697	4,081	4,624	6,451	-28.6	20.4	5.9	6.3	21,537	20,250	6.4
7132	Gambling industries .....	7,759	7,696	7,699	7,649	7,291	7,630	0.8	Z	6.4	0.9	30,803	30,310	1.6
7139	Other amusement and recreation industries .....	S	S	S	20,856	18,605	20,844	S	S	S	S	S	79,405	S
721	Accommodation .....	59,652	64,151	64,467	57,484	58,211	66,285	-7.0	-0.5	2.5	-3.2	245,754	250,120	-1.7
7211	Traveler accommodation .....	58,106	61,562	62,403	55,961	56,751	63,689	-5.6	-1.3	2.4	-3.3	238,032	242,432	-1.8
7212	RV (recreational vehicle) parks and recreational camps .....	1,119	2,122	1,736	1,127	1,058	2,191	-47.3	22.2	5.8	-3.1	6,104	6,243	-2.2
7213	Rooming and boarding houses .....	427	467	328	396	402	405	-8.6	42.4	6.2	15.3	1,618	1,445	12.0

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2012 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
<b>81</b>	<b>Other services (except public administration) <sup>13</sup></b>	<b>147,226</b>	<b>139,133</b>	<b>133,283</b>	<b>131,013</b>	<b>151,955</b>	<b>136,907</b>	<b>5.8</b>	<b>4.4</b>	<b>-3.1</b>	<b>1.6</b>	<b>550,655</b>	<b>556,573</b>	<b>-1.1</b>
811	Repair and maintenance .....	44,133	45,102	46,508	45,316	45,027	43,740	-2.1	-3.0	-2.0	3.1	181,059	175,901	2.9
8111	Automotive repair and maintenance .....	28,653	\$	\$	30,652	29,690	28,984	\$	\$	-3.5	\$	\$	116,095	\$
8112	Electronic and precision equipment repair and maintenance .....	4,467	4,497	4,597	4,437	4,248	4,108	-0.7	-2.2	5.2	9.5	17,998	17,021	5.7
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	9,141	9,238	9,618	8,432	9,060	8,633	-1.1	-4.0	0.9	7.0	36,429	35,003	4.1
8114	Personal and household goods repair and maintenance .....	1,872	1,951	2,105	1,795	2,029	2,015	-4.0	-7.3	-7.7	-3.2	7,723	7,782	-0.8
812	Personal and laundry services.....	\$	\$	29,596	27,965	28,541	27,540	\$	\$	\$	\$	\$	111,323	\$
8121	Personal care services.....	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
8122	Death care services.....	4,655	4,567	4,492	4,839	4,724	4,537	1.9	1.7	-1.5	0.7	18,553	19,138	-3.1
8123	Drycleaning and laundry services.....	7,736	7,582	7,399	7,185	7,069	6,871	2.0	2.5	9.4	10.3	29,902	27,291	9.6
8129	Other personal services.....	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
813	Religious, grantmaking, civic, professional, and similar organizations <sup>14</sup> .....	72,461	64,916	57,179	57,732	78,387	65,627	11.6	13.5	-7.6	-1.1	252,288	269,349	-6.3

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.

S Estimate does not meet publication standards because of high variability (coefficient of variation greater than 30%), poor response quality (total quantity response rate is less than 50%) or other concerns about the estimate's quality. Unpublished estimates derived from this table by subtraction are subject to these same limitations and should not be attributed to the U.S. Census Bureau. For a description of publication standards and the total quantity response rate, see [www.census.gov/quality/guidelines/index.html](http://www.census.gov/quality/guidelines/index.html).

(1) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2012 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(2) Includes NAICS 22 (Utilities), NAICS 48-49 (Transportation and warehousing), NAICS 51 (Information), NAICS 52 (Finance and insurance), NAICS 53 (Real estate and rental and leasing), NAICS 54 (Selected professional, scientific, and technical services), NAICS 56 (Administrative and support and waste management and remediation services), NAICS 61 (Educational services), NAICS 62 (Health care and social assistance), NAICS 71 (Arts, entertainment, and recreation), NAICS 721 (Accommodation), and NAICS 81 (Other services (except public administration)). Exclusions listed in footnotes 3, 4, 7, 9, 12, and 13 also apply to the Selected Services Total.

(3) Excludes government owned utilities.

(4) Excludes NAICS 482 (Rail transportation) and 491 (Postal service).

(5) Includes NAICS 51113 (Book publishers), 51114 (Directory and mailing list publishers), and 51119 (Other publishers).

(6) Includes NAICS 5174 (Satellite telecommunications), and 5179 (Other telecommunications).

(7) Excludes NAICS 525 (Funds, trusts, and other financial vehicles).

(8) Excludes NAICS 521 (Monetary authorities-central bank) and NAICS 525 (Funds, trusts, and other financial vehicles).

(9) Excludes NAICS 54112 (Offices of notaries).

(10) Includes all of NAICS 5413 (Architectural, engineering, and related services) except 54133 (Engineering services).

(11) Includes NAICS 5611 (Office administrative services), 5612 (Facilities support services), 5614 (Business support services), 5616 (Investigation and security services), 5617 (Services to buildings and dwellings), and 5619 (Other support services).

(12) Excludes NAICS 6111 (Elementary and secondary schools), 6112 (Junior colleges), and 6113 (Colleges, universities, and professional schools).

(13) Excludes NAICS 8131 (Religious organizations), 81393 (Labor unions and similar labor organizations), 81394 (Political organizations), and 814 (Private households).

(14) Excludes NAICS 8131 (Religious organizations), 81393 (Labor unions and similar labor organizations), and 81394 (Political organizations).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html). For NAICS 52, estimates may include unrealized gains (losses).



Table 2. Selected Services - Estimated Measures of Sampling Variability  
[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2012 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
	<b>Selected Services Total .....</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.7</b>	<b>0.1</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.8</b>	<b>0.7</b>	<b>0.2</b>
22	<b>Utilities .....</b>	<b>2.2</b>	<b>3.1</b>	<b>2.8</b>	<b>1.8</b>	<b>2.5</b>	<b>3.3</b>	<b>1.2</b>	<b>1.1</b>	<b>0.9</b>	<b>0.6</b>	<b>2.4</b>	<b>2.3</b>	<b>0.5</b>
2211	Electric power generation, transmission and distribution .....	3.0	3.6	3.4	2.8	3.2	3.5	1.1	1.5	0.6	0.5	3.2	2.8	0.5
2212	Natural gas distribution .....	5.1	8.0	6.8	4.9	4.8	5.8	6.4	1.6	2.3	4.4	5.7	4.9	2.3
2213	Water, sewage and other systems .....	4.8	5.4	5.2	5.3	4.8	6.1	2.3	3.8	2.3	2.8	4.9	5.3	2.4
48-49	<b>Transportation and warehousing .....</b>	<b>1.3</b>	<b>1.5</b>	<b>1.6</b>	<b>1.9</b>	<b>1.5</b>	<b>1.7</b>	<b>0.4</b>	<b>0.4</b>	<b>0.8</b>	<b>0.9</b>	<b>1.5</b>	<b>1.6</b>	<b>0.6</b>
481	Air transportation .....	2.0	1.8	2.0	1.8	1.7	1.4	0.4	0.7	0.6	2.1	1.9	1.4	1.5
483	Water transportation .....	8.2	8.1	8.4	8.1	7.7	7.8	0.3	1.3	1.0	0.5	8.2	7.7	0.5
4831	Deep sea, coastal, and Great Lakes water transportation.....	10.0	9.4	10.0	9.6	9.3	8.9	0.5	1.6	1.2	0.6	9.7	9.2	0.5
4832	Inland water transportation.....	3.9	4.1	3.6	4.2	3.9	5.0	1.7	2.4	0.5	1.1	3.8	3.8	1.0
484	Truck transportation .....	2.0	2.1	1.9	2.7	2.5	2.7	0.6	0.6	1.3	1.4	2.1	2.5	0.9
4841	General freight trucking .....	3.2	3.2	3.3	4.0	3.5	3.8	1.1	1.0	2.0	2.0	3.3	3.7	1.6
48412	General freight trucking, long-distance .....	4.5	4.3	4.2	4.0	3.8	3.8	1.5	1.1	3.2	2.0	4.1	3.6	2.1
4842	Specialized freight trucking .....	2.1	1.4	S	1.4	1.8	1.5	1.2	S	2.1	0.9	S	1.5	S
485	Transit and ground passenger transportation .....	4.7	5.4	4.5	4.1	2.7	3.6	2.3	1.5	2.7	2.6	4.6	3.3	2.0
486	Pipeline transportation .....	1.1	1.2	1.3	1.4	1.4	1.2	0.3	0.1	0.5	0.2	1.2	1.3	0.2
487	Scenic and sightseeing transportation .....	6.5	7.2	6.6	11.4	4.5	7.1	3.5	5.3	3.1	3.4	6.6	7.5	1.4
488	Support activities for transportation .....	3.4	3.3	3.7	3.8	3.2	2.9	0.5	1.5	2.1	2.5	3.4	3.0	2.1
492	Couriers and messengers .....	3.5	3.6	3.6	3.1	3.5	4.8	0.3	0.2	0.9	1.8	3.4	4.0	1.5
493	Warehousing and storage .....	5.3	4.7	5.7	5.6	5.6	5.4	2.3	2.2	1.8	2.0	5.2	5.2	1.1
51	<b>Information .....</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.6</b>	<b>1.7</b>	<b>0.2</b>	<b>0.3</b>	<b>0.5</b>	<b>0.5</b>	<b>1.5</b>	<b>1.5</b>	<b>0.4</b>
511	Publishing industries (except Internet) .....	2.7	3.6	3.1	3.0	3.0	2.5	1.2	1.3	1.6	1.9	3.0	2.5	1.1
51111	Newspaper publishers .....	5.0	5.0	4.6	4.5	4.3	4.5	0.6	1.1	1.2	0.9	4.8	4.4	0.7
51112	Periodical publishers .....	4.2	4.9	5.3	5.1	4.9	5.2	2.2	3.0	1.8	1.5	4.7	5.0	1.4
5111 pt	Book, directory and mailing list, and other publishers .....	4.3	3.6	3.7	2.9	4.1	3.3	1.7	1.3	1.0	2.1	3.5	3.3	1.0
5112	Software publishers .....	3.0	4.2	3.6	3.5	3.7	3.0	1.7	1.6	2.4	2.7	3.4	3.1	1.8
512	Motion picture and sound recording industries .....	1.4	1.2	1.1	1.2	1.0	1.1	0.6	0.7	1.2	0.8	1.1	1.0	0.6
515	Broadcasting (except Internet) .....	1.0	1.0	1.0	1.0	1.0	0.9	0.4	0.6	0.4	0.4	0.9	0.9	0.3
5151	Radio and television broadcasting .....	2.1	2.2	1.8	1.7	2.2	2.3	0.8	1.2	0.8	0.8	1.9	2.0	0.7
5152	Cable and other subscription programming .....	1.1	1.2	1.2	1.2	1.1	1.2	0.1	Z	0.1	0.1	1.2	1.1	0.1
517	Telecommunications .....	1.2	1.2	1.3	1.4	1.4	1.7	0.1	0.4	0.4	1.1	1.3	1.5	0.7
5171	Wired telecommunications carriers .....	1.9	1.9	2.0	2.1	2.1	1.9	0.1	0.3	0.5	0.3	2.0	1.8	0.3
5172	Wireless telecommunications carriers (except satellite) .....	2.2	2.3	2.4	2.4	1.9	1.9	0.2	0.6	1.0	2.4	2.3	1.7	1.9
517 pt	Other telecommunications .....	4.1	4.4	4.2	4.2	3.9	4.8	0.5	0.5	0.7	1.6	4.2	4.2	0.9
518	Data processing, hosting, and related services .....	2.9	3.1	3.1	3.4	3.4	3.2	0.5	0.2	1.4	1.5	3.1	3.3	1.4
519	Other information services.....	4.1	4.3	4.1	4.4	5.2	5.6	0.5	0.6	2.2	2.4	4.2	5.5	2.3
52	<b>Finance and insurance .....</b>	<b>2.1</b>	<b>2.0</b>	<b>2.1</b>	<b>1.9</b>	<b>1.9</b>	<b>1.9</b>	<b>0.5</b>	<b>0.4</b>	<b>0.7</b>	<b>0.6</b>	<b>2.0</b>	<b>1.9</b>	<b>0.4</b>
52 pt	Finance and insurance (except monetary authorities-central bank) .....	2.2	2.1	2.2	1.9	1.9	2.0	0.5	0.4	0.7	0.6	2.1	1.9	0.4
521	Monetary authorities-central bank.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
522	Credit intermediation and related activities.....	2.4	2.1	1.9	2.0	2.0	2.1	0.8	0.7	1.1	0.8	2.1	2.0	0.7
5221	Depository credit intermediation.....	3.9	3.4	3.3	3.1	3.4	3.1	1.5	1.4	1.5	1.7	3.3	3.2	1.0
5222	Nondepository credit intermediation.....	3.9	3.7	3.4	3.3	3.1	3.3	1.0	0.3	1.7	0.9	3.5	3.3	1.1
5223	Activities related to credit intermediation.....	2.5	2.9	2.8	2.9	2.7	2.6	0.6	0.4	0.9	0.8	2.7	2.5	0.6
523	Securities, commodity contracts, and other financial investments and related activities .....	4.2	4.7	4.7	4.4	4.0	4.6	1.2	1.0	1.3	1.8	4.5	4.3	1.5
5231	Securities and commodity contracts intermediation and brokerage .....	9.9	10.1	10.2	9.4	9.2	9.1	1.6	1.3	2.4	2.5	9.7	9.0	2.7
5232	Securities and commodity exchanges .....	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
5239	Other financial investment activities .....	3.2	2.0	2.5	3.0	2.9	3.0	2.2	1.0	1.6	1.5	2.6	2.9	0.8
524	Insurance carriers and related activities .....	2.8	2.7	2.6	2.6	2.3	2.3	0.6	0.4	1.0	0.9	2.7	2.2	0.6
5241	Insurance carriers .....	3.4	3.1	3.1	3.0	2.8	2.8	0.7	0.4	1.3	0.9	3.1	2.7	0.7
5242	Agencies, brokerages, and other insurance related activities .....	2.5	2.7	2.7	2.8	2.3	2.2	0.8	0.8	0.9	1.3	2.6	2.2	0.8
53	<b>Real estate and rental and leasing .....</b>	<b>1.3</b>	<b>1.2</b>	<b>1.3</b>	<b>0.9</b>	<b>1.2</b>	<b>1.1</b>	<b>0.6</b>	<b>1.0</b>	<b>1.3</b>	<b>1.3</b>	<b>1.1</b>	<b>1.2</b>	<b>0.9</b>
531	Real estate .....	1.4	1.2	1.4	1.2	1.3	1.6	0.6	0.8	1.1	1.2	1.2	1.5	0.9
5311	Lessors of real estate.....	1.9	1.9	2.0	1.9	2.0	2.4	0.6	0.8	1.8	2.2	1.9	2.1	1.4
5312	Offices of real estate agents and brokers.....	3.6	3.2	3.6	3.0	4.2	3.2	1.4	1.1	2.1	1.9	3.3	3.4	1.6
5313	Activities related to real estate.....	S	S	2.1	2.1	2.7	2.7	S	S	S	S	S	2.1	S
532	Rental and leasing services .....	3.9	3.9	3.3	2.9	3.3	3.3	0.8	1.6	2.7	2.7	3.4	3.2	1.8
5321	Automotive equipment rental and leasing .....	1.8	1.9	2.0	2.1	1.6	1.8	0.6	0.5	0.5	1.1	1.9	2.1	1.2
53211	Passenger car rental and leasing.....	3.4	3.5	3.7	4.0	3.3	3.6	0.5	0.5	0.6	1.3	3.6	4.1	1.6
53212	Truck, utility trailer, and RV (recreational vehicle) rental and leasing .....	4.6	3.8	3.5	4.0	4.3	3.6	1.1	1.1	1.0	1.3	3.9	3.9	1.0
5322	Consumer goods rental .....	6.7	5.9	5.0	8.3	8.4	7.0	2.9	3.4	5.0	2.9	6.0	7.6	3.1
5323	General rental centers.....	S	S	S	S	S	S	S	S	S	S	S	S	S
5324	Commercial and industrial machinery and equipment rental and leasing .....	9.1	9.4	8.2	7.9	8.4	8.5	2.0	3.0	5.2	5.3	8.4	8.1	3.3
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	4.9	5.4	5.8	5.2	4.6	6.6	0.6	2.9	0.8	1.6	5.1	5.1	1.1

Table 2. Selected Services - Estimated Measures of Sampling Variability  
[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2012 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
54	Professional, scientific, and technical services .....	2.3	2.5	2.1	1.7	2.0	1.7	0.3	0.8	0.7	1.3	2.2	1.7	0.8
5411	Legal services .....	3.7	3.9	4.0	3.3	3.9	2.7	1.4	1.9	2.6	2.5	3.6	2.8	1.1
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	3.3	2.2	2.7	1.2	3.1	2.4	1.5	1.2	1.8	1.2	2.1	2.0	1.1
5413	Architectural, engineering, and related services .....	3.4	4.0	3.0	3.1	3.4	3.5	1.6	1.3	1.3	1.2	3.3	3.4	1.2
5413 pt	Architectural and related services .....	6.5	6.2	5.5	4.2	6.4	6.2	3.7	3.0	2.9	5.5	5.3	6.3	1.8
54133	Engineering services .....	3.7	3.9	3.4	3.6	3.4	3.9	1.6	1.6	1.3	1.8	3.5	3.4	1.4
5414	Specialized design services.....	6.1	5.3	S	4.4	8.5	S	2.1	S	4.7	S	S	S	S
5415	Computer systems design and related services .....	3.6	3.2	2.7	1.9	2.1	2.3	1.0	1.5	3.2	4.1	2.7	2.0	2.6
5416	Management, scientific, and technical consulting services .....	3.8	3.8	4.0	4.2	4.3	3.3	0.7	1.4	1.7	1.8	3.9	3.2	1.6
5417	Scientific research and development services .....	7.9	8.9	8.5	8.5	7.7	8.8	1.8	1.4	2.9	2.3	8.4	8.0	1.2
5418	Advertising, public relations, and related services .....	2.2	2.1	2.2	2.1	1.7	1.7	0.9	0.4	1.6	1.1	2.1	1.8	1.1
5419	Other professional, scientific, and technical services.....	S	S	4.5	5.1	4.5	5.0	S	S	S	S	S	4.6	S
56	Administrative and support and waste management and remediation services .....	3.4	3.0	2.6	2.7	2.5	2.3	0.6	0.7	1.5	1.7	2.9	2.3	1.3
561	Administrative and support services .....	3.8	3.4	3.0	2.9	2.7	2.3	0.7	0.7	1.8	1.7	3.3	2.4	1.4
5613	Employment services .....	6.8	6.6	5.6	5.3	4.1	4.2	1.1	1.4	3.2	3.4	6.1	3.9	2.7
5615	Travel arrangement and reservation services .....	3.7	4.0	4.5	5.5	4.4	4.8	1.6	1.5	2.2	2.1	4.3	4.5	0.9
561 pt	Other administrative and support services .....	S	2.9	2.8	2.9	3.1	2.9	S	0.7	S	1.9	S	2.7	S
562	Waste management and remediation services .....	3.5	2.1	2.3	2.8	3.5	4.2	1.7	1.1	1.0	2.5	2.6	3.4	1.2
61	Educational services .....	4.6	4.1	3.3	3.3	2.1	2.6	1.8	2.0	3.6	2.7	3.6	1.9	2.1
6114	Business schools and computer and management training .....	7.1	6.9	6.5	7.7	7.0	7.1	3.1	3.6	3.2	3.8	6.6	6.7	1.2
6115	Technical and trade schools .....	6.7	5.5	6.4	6.6	6.4	4.5	3.3	3.6	4.2	3.3	6.1	5.5	3.6
6116	Other schools and instruction.....	S	7.9	7.0	7.2	7.6	7.1	S	3.6	S	5.8	S	S	S
6117	Educational support services .....	4.4	7.2	4.0	3.0	4.7	6.0	3.7	3.9	2.4	3.2	4.4	3.6	2.3
62	Health care and social assistance .....	1.7	1.6	1.7	1.6	1.5	1.5	0.4	0.2	0.6	0.4	1.7	1.5	0.4
621	Ambulatory health care services .....	1.8	1.6	1.7	1.7	1.6	1.7	0.5	0.4	0.9	0.8	1.7	1.5	0.6
6211	Offices of physicians.....	3.2	2.7	2.8	2.7	2.6	2.6	0.9	0.8	1.9	1.6	2.8	2.5	1.3
6212	Offices of dentists.....	S	S	3.8	4.3	4.1	4.0	S	S	S	S	S	S	S
6213	Offices of other health practitioners .....	S	S	4.9	3.8	4.2	3.8	S	S	S	S	S	S	S
6214	Outpatient care centers .....	2.9	2.3	2.8	2.7	3.4	2.9	1.0	0.6	1.2	0.9	2.6	2.8	0.6
6215	Medical and diagnostic laboratories .....	4.7	4.4	4.5	4.0	3.7	3.5	0.6	0.5	1.7	1.9	4.4	3.5	2.0
6216	Home health care services .....	5.7	6.2	5.9	6.0	5.6	4.7	0.9	0.9	2.2	2.1	5.9	4.7	1.7
6219	Other ambulatory health care services .....	3.8	4.4	4.2	4.3	3.9	3.6	0.8	0.6	1.3	1.0	4.2	3.8	0.8
622	Hospitals .....	2.7	2.7	2.6	2.7	2.4	2.5	0.4	0.2	0.8	0.6	2.7	2.5	0.4
6221	General medical and surgical hospitals.....	2.6	2.7	2.6	2.7	2.4	2.5	0.4	0.2	0.8	0.6	2.6	2.5	0.5
6222	Psychiatric and substance abuse hospitals.....	5.1	5.1	5.6	5.3	4.9	5.2	0.8	1.6	2.1	1.8	5.2	5.3	0.8
6223	Specialty (except psychiatric and substance abuse) hospitals.....	7.9	7.1	6.8	6.6	7.5	7.6	0.8	0.5	0.7	0.9	7.1	7.3	0.4
623	Nursing and residential care facilities .....	2.3	2.3	2.1	2.4	2.0	2.2	0.7	0.4	1.0	0.9	2.2	2.2	0.9
624	Social assistance .....	3.6	3.0	2.1	2.7	2.3	2.7	1.1	1.0	2.0	2.0	2.8	2.2	1.5
6241	Individual and family services.....	5.7	5.0	4.0	4.8	3.7	3.9	1.2	1.2	2.6	2.7	4.9	3.6	2.1
6242	Community food and housing, and emergency and other relief services .....	6.3	6.1	6.2	4.7	6.2	6.2	2.8	2.5	4.8	4.2	5.7	5.7	3.1
6243	Vocational rehabilitation services .....	12.1	11.2	10.4	10.3	11.5	11.1	1.7	1.5	3.0	0.9	11.0	10.1	1.2
6244	Child day care services .....	S	5.3	5.7	6.0	4.8	5.6	S	1.5	S	2.7	S	4.5	S
71	Arts, entertainment, and recreation.....	2.5	2.6	2.5	2.9	2.5	2.1	1.5	2.0	1.7	1.7	2.4	2.3	1.7
711	Performing arts, spectator sports, and related industries .....	3.4	2.5	4.5	5.5	2.6	1.8	2.8	4.3	1.9	2.4	3.4	2.4	2.1
7111	Performing arts companies.....	3.3	4.7	3.6	5.4	4.4	5.2	3.9	6.7	5.2	4.2	2.7	3.5	2.6
7112	Spectator sports.....	5.8	3.5	9.3	10.2	3.2	3.1	6.2	6.5	3.5	1.0	6.2	3.4	3.1
7113	Promoters of performing arts, sports, and similar events.....	5.5	4.7	6.8	7.5	5.2	4.7	2.7	4.8	2.4	2.6	5.5	4.9	2.7
7114	Agents and managers for artists, athletes, entertainers, and other public figures .....	10.2	5.2	4.4	9.4	5.5	4.5	7.8	2.0	10.2	3.6	7.0	5.1	6.2
7115	Independent artists, writers, and performers.....	S	S	11.1	8.7	12.5	12.1	S	S	S	S	S	9.8	S
712	Museums, historical sites, and similar institutions.....	5.6	5.9	4.1	6.5	8.7	9.2	4.7	2.6	3.4	6.6	4.8	9.4	4.3
713	Amusement, gambling, and recreation industries.....	4.8	4.7	4.7	5.4	5.1	4.3	1.6	1.4	1.7	1.7	4.8	4.7	1.4
7131	Amusement parks and arcades.....	4.0	6.1	5.9	3.9	2.9	5.9	2.6	3.4	1.4	1.3	4.9	4.4	1.1
7132	Gambling industries.....	13.7	13.9	14.0	15.7	14.6	13.7	0.4	0.7	0.9	1.2	14.3	14.0	1.1
7139	Other amusement and recreation industries.....	S	S	S	2.5	3.0	1.9	S	S	S	S	S	2.0	S
721	Accommodation .....	1.3	1.2	1.1	1.2	1.4	1.4	0.6	0.9	1.0	1.2	1.1	1.3	0.9
7211	Traveler accommodation .....	1.3	1.3	1.1	1.2	1.5	1.4	0.7	1.0	1.0	1.1	1.1	1.4	0.9
7212	RV (recreational vehicle) parks and recreational camps .....	5.6	6.5	4.6	5.6	5.4	5.3	2.2	5.2	5.4	5.9	4.6	4.4	4.6
7213	Rooming and boarding houses .....	6.0	2.8	5.8	6.6	7.5	3.4	5.1	6.3	4.0	4.3	4.7	5.7	2.7

Table 2. Selected Services - Estimated Measures of Sampling Variability

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2012 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		4Q 2018 (p)	3Q 2018 (r)	2Q 2018 (r)	1Q 2018 (r)	4Q 2017 (r)	3Q 2017 (r)	4Q 2018 from 3Q 2018 (p)	3Q 2018 from 2Q 2018 (r)	4Q 2018 from 4Q 2017 (p)	3Q 2018 from 3Q 2017 (r)	2018 (p)	2017 (r)	2018 from 2017 (p)
81	Other services (except public administration) .....	2.2	2.0	2.2	3.8	2.1	1.8	1.3	1.3	1.7	1.6	2.4	1.5	1.2
811	Repair and maintenance .....	2.3	2.8	3.7	3.8	3.8	4.3	1.5	1.6	2.3	1.8	3.0	3.5	1.1
8111	Automotive repair and maintenance .....	4.6	S	S	5.8	5.9	6.4	S	S	3.4	S	S	5.9	S
8112	Electronic and precision equipment repair and maintenance .....	3.8	3.0	4.2	4.3	3.8	4.7	1.5	1.8	1.5	3.9	3.7	4.1	2.8
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	10.9	9.5	10.5	9.8	10.3	10.1	1.7	2.0	4.2	4.8	10.1	9.2	3.5
8114	Personal and household goods repair and maintenance .....	9.5	9.8	9.4	8.2	9.2	7.9	3.1	4.1	4.4	5.1	9.0	8.1	3.3
812	Personal and laundry services.....	S	S	3.1	2.5	2.7	2.9	S	S	S	S	S	2.7	S
8121	Personal care services.....	S	S	S	S	S	S	S	S	S	S	S	S	S
8122	Death care services.....	5.9	4.4	4.1	4.8	4.9	4.0	3.5	2.1	3.5	3.4	4.4	3.9	2.2
8123	Drycleaning and laundry services.....	6.5	5.9	6.0	6.0	5.2	4.6	0.8	2.4	3.7	4.7	6.0	4.7	3.6
8129	Other personal services.....	S	S	S	S	S	S	S	S	S	S	S	S	S
813	Religious, grantmaking, civic, professional, and similar organizations .....	4.4	3.8	3.2	7.1	3.7	3.0	3.0	3.3	3.0	4.0	4.4	2.8	2.2

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.  
S Corresponding estimate in Table 1a and/or 1b does not meet publication standards because of high sampling variability, poor response quality or other concerns about the estimate's quality.

Note: Estimated measures of sampling variability are based on data not adjusted for seasonal variation, and should be used when drawing inferences about both adjusted and not adjusted estimates. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

## EXPLANATORY NOTES

### Survey Description

The U.S. Census Bureau conducts the Quarterly Services Survey to provide national estimates of quarterly revenue for employer firms located in the United States and classified in select service industries. The current total sample size is approximately 19,500 employer firms.

Each quarter, questionnaires are mailed to a probability sample of employer firms selected from the larger Service Annual Survey sample. The QSS sample includes firms of all sizes and is updated on a quarterly basis to account for new services businesses, deaths, and other changes to the survey universe. Data for nonresponding firms are imputed based on data for similar-sized firms classified in the same kind of business. The following table lists imputation rates of total quarterly revenue for the industries published in the QSS:

2012 NAICS Code	Kind of Business	Imputation Rate of Total Quarterly Revenue (in %)
	Selected Services Total	31
22	Utilities	10
48-49	Transportation and warehousing	29
51	Information	22
52	Finance and insurance	19
53	Real estate and rental and leasing	44
54	Professional, scientific, and technical services	42
56	Administrative and support and waste management and remediation services	43
61	Educational services	46
62	Health care and social assistance	40
71	Arts, entertainment, and recreation	42
721	Accommodation	36
81	Other services (except public administration)	45

Quarterly revenue estimates are obtained by summing weighted data (either reported or imputed), where the weight for a particular unit is the reciprocal of its probability of being selected into the sample. The estimates are benchmarked using results of the latest SAS. Additional information on the QSS can be found on the Census Bureau website at <[www.census.gov/services/](http://www.census.gov/services/)>.

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## Description of Seasonal Adjustment

To derive the seasonally adjusted revenue estimates published in this report, we used all available quarterly revenue estimates as input to the Census Bureau's X-13 ARIMA-SEATS program. With each non-advance quarterly release, we publish preliminary seasonally adjusted estimates for the current quarter and revised seasonally adjusted estimates for the previous five quarters. The seasonal adjustment models used to derive seasonal factors for each kind of business are evaluated annually and will not be revised until the next benchmarking operation. For a table of the seasonal adjustment factors, see

<[www.census.gov/services/qss/qssseasfactors.xls](http://www.census.gov/services/qss/qssseasfactors.xls)>. A list of "Frequently Asked Questions" on seasonal adjustment of QSS estimates is available at <[www.census.gov/services/qss/seasonally\\_adjusted\\_faq](http://www.census.gov/services/qss/seasonally_adjusted_faq)>.

## Reliability of the Estimates

The estimates in this report may differ from the actual, but unknown, population values. For a particular estimate, statisticians define this difference as the total error of the estimate. When describing the accuracy of survey results, it is convenient to discuss total error as the sum of sampling error and nonsampling error. Nonsampling error is the difference between the actual population parameter and the value that would be derived by surveying the entire set of units identified as the survey universe (the sampling frame). There are many potential contributors to nonsampling error – the inclusion of erroneous units in the survey (overcoverage), the exclusion of eligible units from the survey (undercoverage), nonresponse, misreporting, mistakes in recording and coding responses, misinterpretation of questions, and other errors of collection, response, coverage, or processing. Though nonsampling error is not measured directly, the Census Bureau employs quality control procedures throughout the process to minimize this type of error. Sampling error is the average difference between the estimate and the result that would be obtained from a complete enumeration of the sampling frame conducted under the same survey conditions. This error occurs because only a subset of the entire sampling frame is measured in a sample survey. Common measures of sampling error are the sampling variance, the standard error, and the coefficient of variation. The sampling variance is defined as the squared difference, averaged over all possible samples of the same size and design, between the estimator and its average value. The standard error is the square root of the sampling variance. The CV expresses the standard error as a percentage of the estimate to which it refers. For example, an estimate of 200 units that has an estimated standard error of 10 units has an estimated CV of 5 percent. The sampling variance, standard error, and CV of an estimate can be estimated from the selected sample because the sample was selected using probability sampling. Standard errors and coefficients of variation are given in Table 2 of this report.

The first page of this release gives statements about the change in revenue from a prior period. Each change estimate is accompanied by a number in parentheses, called the "margin of error." The margin of error can

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be used to construct a 90-percent confidence interval, which is interpreted as follows. If, for each possible sample, an estimate and its approximate standard error are obtained, then for approximately 90 percent of the possible samples, the interval from 1.895 standard errors below to 1.895 standard errors above the estimate would include the average of the estimates derived from all possible samples. If, for example, a particular change estimate is +1.2 percent and its associated margin of error is  $\pm 1.5$  percentage points, then the 90-percent confidence interval for the change estimate is -0.3 percent to +2.7 percent. If the interval contains 0, then one does not have sufficient evidence to conclude at the 90-percent confidence level that the actual change is different from zero. Each comparison stated in this report has undergone statistical testing and is significant at the 90-percent confidence level, unless otherwise noted. Data users should take into account the estimates of sampling error and the potential effects of nonsampling error when using the statistics in this publication.

Additional information regarding the methodology used in conducting this survey is available at [www.census.gov/services/qss/qsstechdoc](http://www.census.gov/services/qss/qsstechdoc).

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